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APPLICATION NO.	Fi	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/842,440	0 04/26/2001		Ulrich A. Muller	10366-012	7500	
9629	7590	12/14/2006		EXAMINER		
		& BOCKIUS LLP	MILEF, ELDA G			
1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004				ART UNIT	PAPER NUMBER	
	,			3692		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/842,440	MULLER, ULRICH A.			
Office Action	Summary	Examiner	Art Unit			
		Elda Milef	3692			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUT WHICHEVER IS LONGEF - Extensions of time may be availab after SIX (6) MONTHS from the m - If NO period for reply is specified a - Failure to reply within the set or ex	R, FROM THE MAILING DA le under the provisions of 37 CFR 1.13 ailing date of this communication. above, the maximum statutory period we tended period for reply will, by statute, ter than three months after the mailing	IS SET TO EXPIRE 3 MONTH(3 ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI date of this communication, even if timely filed	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status						
2a) ☐ This action is FINAL 3) ☐ Since this application	n is in condition for allowar	ctober 2006. action is non-final. ace except for formal matters, pro ax parte Quayle, 1935 C.D. 11, 45				
Disposition of Claims	•					
4a) Of the above cla 5) ☐ Claim(s) is/a 6) ☒ Claim(s) <u>1-19</u> is/are 7) ☒ Claim(s) <u>3-6, 9, 14,</u>	rejected.	vn from consideration.				
Application Papers			•			
10) The drawing(s) filed Applicant may not req Replacement drawing	uest that any objection to the onest(s) including the correction	r. epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is objection. Note the attached Office	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 11	9					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (P' 2) Notice of Draftsperson's Pater 3) Information Disclosure Statem Paper No(s)/Mail Date	t Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

Art Unit: 3692

DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

1. Claims 1-19 are rejected under 35 U.S.C. 101 because the steps of testing data do not provide a practical application of an idea resulting in a useful, concrete, and tangible result. The claimed invention relates to testing data for decimal, scaling, domain, and for credibility of data. Accordingly, a tangible and useful result is not realized and the claims are therefore rejected under 35 U.S.C. 101. See MPEP § 2106 II (A), and State Street, 149 F.3d at 1373, 47 USPQ2d at 1601-02.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

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2. Claims 1, 2, 7, 8, 10-13, 15, 18,19 are rejected under 35 U.S.C. 102(a) as being anticipated by Dacorogna (Dacorogna, Michel M.; Muller, Ulrich A. Muller, Olivier V. Pictet, Casper G. DeVries. The Distribution of Extremal Foreign Exchange Rate Returns in Extremely Large Data Sets. O&A Research Group: June 28, 1995.)

Re claims 1,11,12: Dacorogna disclose a method of filtering time series data ("Data set construction and data filters") pp. 14-17; comprising the steps of:

testing said data for decimal error-see ("decimal error filter")-pp.14-15;

testing said data for scaling error-see("bid price filter")
p. 14;

testing said data for domain error-see ("spread filter) pp. 15-16;

testing for credibility of said data that passes the tests for decimal error, scaling error and domain error by comparing nearby data in the time series.—see (decimal error, bid price, and spread filters, the application of weak and strong filters, tail statistics study...) pp.15-16.

Re claims 2 & 13: Dacorogna disclose a step of detecting a monotonic series of quotes. ("data in the form of a time series which is equally spaced in time...")-see p. 16 para. 2.

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Re claims 7,8, 18,19: Dacorogna disclose testing for decimal error comprises computed a corrected quote, and testing the corrected quote for validity, credibility and comparing the credibility of the corrected quote with the credibility of the original quote.-see pp.14-16.

Re claims 10 & 15: Dacorogna disclose wherein a quote is tested relative to a series of quotes within a time window. (Δt) p. 15.

Allowable Subject Matter

3. Claims 3-6, 9, 14, 16-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and the 35 USC § 101 rejection overcome.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elda Milef whose telephone number is (571)272-8124. The examiner can normally be reached on Monday -Thursday 8:30 am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Chilcot can be reached on (571)272-6777. The fax phone number for the

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organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Elda Milef Examiner Art Unit 3692

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/ RICHARD E. CHILCOT, JR. SUPERVISORY PATENT EXAMINER

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